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1. 12.1-PH2: Pipeline Systems with Integrated Health Monitoring

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

Advanced pipeline technology is envisioned that provides point-of-source leak detection and health monitoring of pipeline containment structures including cased pipes, and serge tanks. There is a need for advanced monitoring systems that have integrated sensor functionality to detect leak progression through containment walls, thinning of walls due to corrosion and erosion, as well as the breakdow ...

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2. 12.1-PH3: Study, Develop and Demonstrate a Multi-Channel Insert and Assembly for Cased Pipelines

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

Currently, inspection and assessment of pipe condition in cased pipelines is mostly limited to direct and in-line assessment methods such as ILI tools, open-cuts, ultrasonic’s inspection and External Corrosion Direct Assessment (ECDA) practices. These methods are expensive, time consuming, and do not fully prevent leaks, failures and damage to life, property and the environment. Corros ...

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3. 1: Federal Motor Carrier Safety Administration (FMCSA)

Release Date: 04-04-2011Open Date: 04-04-2011Due Date: 06-13-2011Close Date: 06-13-2011

The primary mission of Federal Motor Carrier Safety Administration (FMCSA) of Department of Transportation (DOT) is to reduce crashes, injuries and fatalities involving large truck and buses. One of the strategies employed to accomplish this goal is to foster innovative research in new or augmenting safety enhancing technologies and to facilitate faster deployment of proven systems ...

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4. 2: National Highway Traffic Safety (NHTSA) Administration

Release Date: 04-04-2011Open Date: 04-04-2011Due Date: 06-13-2011Close Date: 06-13-2011

Human factors play a large role in crash causation, and are aggravated due to limited visibility under night driving conditions. Statistics show a large portion of crashes occurring during nighttime conditions, when limited visibility can aggravate the influence of other high risk factors (fatigue, distraction, age, impairment) [1]. Nighttime illumination conditions include head li ...

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5. 3: Pipeline and Hazardous Materials Safety (PHMSA) Administration

Release Date: 04-04-2011Open Date: 04-04-2011Due Date: 06-13-2011Close Date: 06-13-2011

Portable tanks are used in various transportation systems throughout the entire world. They are used interchangeably for the transportation of hazardous materials. These types of hazardous materials packages are placed on cargo ships, trains and trucks to ensure the hazardous materials products are delivered in an efficient manner. The portable tanks are held in a carriage system t ...

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